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APPLICATION NO.	LICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	NO. CONFIRMATION NO.	
10/706,000	11/12/2003	Kuppsuamy Kanakarajan	HP0087USNA	6531	
23906	7590 05/09/2006	EXAMINER			
	NT DE NEMOURS AN	LAM, CATHY	LAM, CATHY FONG FONG		
	TENT RECORDS CENTI	A DOT LOUIS	D. DCD \		
BARLEY M	IILL PLAZA 25/1128	ART UNIT	PAPER NUMBER		
4417 LANC	ASTER PIKE	1775			
WILMINGT	ON, DE 19805	DATE MAILED: 05/09/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	on No.	Applicant(s)				
Office Asticus Communication		10/706,00	0	KANAKARAJAN ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Cathy Lam		1775				
Period f	The MAILING DATE of this communication apports or Reply	pears on the	cover sheet with the	correspondence a	ddress			
WHI - Exte afte - If N - Fail Any	HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 136(a). In no eve will apply and wil e, cause the appl	IS COMMUNICATIO int, however, may a reply be till I expire SIX (6) MONTHS from ication to become ABANDONE	N. mely filed the mailing date of this of ED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed on Feb.	. 15th 2006.						
2a)								
3)[Since this application is in condition for allowa	nce except	for formal matters, pr	osecution as to th	e merits is			
	closed in accordance with the practice under b	Ex parte Qu	ayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposit	tion of Claims							
	Claim(s) 1.2 and 4-19 is/are pending in the ap	nlication						
الحار ا	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
-	(i) ☐ Claim(s) <u>1-2, 4-19</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction and/o	or election re	equirement.					
Applicat	tion Papers							
	The specification is objected to by the Examine	er						
	The drawing(s) filed on is/are: a) acc		objected to by the	Examiner				
,	Applicant may not request that any objection to the							
	Replacement drawing sheet(s) including the correct		<u> </u>	` '	FR 1.121(d).			
11)	The oath or declaration is objected to by the Ex			-	, ,			
Priority	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreign	nriority und	ler 35 II.S.C. & 119/a	n)-(d) or (f)				
) All b) Some * c) None of:	·	101 00 0.0.0. 3 110(0	i) (a) or (i).				
•	1. Certified copies of the priority document	ts have beer	n received.					
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the prior		• •		l Stage			
	application from the International Burea	u (PCT Rule	e 17.2(a)).					
*	See the attached detailed Office action for a list	t of the certif	ied copies not receive	ed.				
	•			·	•			
Attachme	nt(s)							
	ce of References Cited (PTO-892)		4) Interview Summary		ط ا ٠ فرار			
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08))	Paper No(s)/Mail D 5) Notice of Informal I	Patent Application (PT	O-152)			
	er No(s)/Mail Date	•	6) Other:					

Application/Control Number: 10/706,000 Page 2

Art Unit: 1775

In view of the amendment filed on February 15th 2006, the pending claims are unpatentable as following:

Claim Rejections - 35 USC § 112

1. Claims 1, 4, 14, 15 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, under b. the phrase "a high glass transition temperature polyimide layer *comprising a having a* glass" is indefinite. Applicant should either use – comprising a – or – having a –-. Correction is required.

In claim 4, on line 1 the phrase "wherein: i." is indefinite, clarification is required.

In claim 14, the claim is structurally indefinite and lack of antecedent basis for "one of the additional conductive layers" and "the first and second outer layer".

In claim 15, applicant is suggested to delete terms such as ("COF"), ("LOC"), ("MCM"), ("BGA"), ("µ-BGA"), ("CSP") and ("TAB"). If applicant feels these terms are necessary to be in the claims, the examiner suggests that these terms be presented without the quotation marks, e.g. (COF). Or applicant can import these acronyms to the specification.

Claim 18 has been incorporated into the independent claim, thus it appears to be redundant.

Allowable Subject Matter

2. Claims would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lam whose telephone number is (571) 272-1538. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cathy Lam

Primary Examiner

Art Unit 1775

cfl April 28, 2006